

A CATALOGUE OF

Optical, Mathematical, and Philosophical

INSTRUMENTS,

MADE AND SOLD BY

WILL^M. AND SAM^L. JONES,

No. 135, next FURNIVAL'S-INN, HOLBORN, London.

OPTICAL INSTRUMENTS.

£. s. d.

B EST double-jointed standard gold spectacles with pebbles, and fish-skin gold mounted case	—	—	16	16	0
Ditto single jointed, with ditto case	—	—	10	10	0
Best double-jointed silver ditto, with pebbles	—	—	1	16	0
Ditto, ditto, with glasses	—	—	1	1	0
Best single-jointed, with pebbles	—	—	1	8	0
Ditto, with glasses	—	—	0	13	0
Best double-jointed steel ditto, with glasses	—	—	0	9	0
An improved sort of ditto for ladies	—	—	0	10	6
Second best double-jointed steel spectacles, with spring case	—	—	0	7	6
Common ditto	—	—	0	4	6
Best single jointed steel spectacles	—	—	0	4	6
Second best ditto	—	—	0	2	6
Common ditto	—	—	0	1	6
Tortoisshell spectacles, silver jointed, with pointed, and other shaped sides, peculiar for their lightness, and uninterrupted of dressed hair, in a morocco leather case	—	—	0	10	6
Ditto, double-jointed frames	—	—	0	15	0
Spectacles for eyes that have been couched	—	—	0	7	6
Ditto with green glasses for very weak and inflamed eyes; according to the frames, from 6s. to	—	—	1	1	0
Ditto for the same purpose, with new contrived portable shades to screen the eyes from candle, or other light	—	—	0	15	0
Nose spectacles, in silver	—	—	0	7	6
Ditto in tortoisshell and silver	—	—	0	4	0
Ditto in horn and steel	—	—	0	1	0
Spectacle cases in very great variety, from 2d. to	—	—	10	10	0
Concave glasses for short sighted persons, in horn cases	—	—	0	1	6
Ditto in tortoisshell, pearl, silver, &c. from 2s. 6d. to	—	—	2	2	0
Ditto, in new-contrived frames for gentlemen when shooting	—	—	0	16	0
Reading and burning glasses, in various mountings, from 1s. to	—	—	1	16	0
Convex glasses for Watch-makers, Engravers, &c. from 1s. to	—	—	0	10	6
Gogglers, to guard the eyes from the dust, or wind	—	—	0	3	0
New light green shades for the eyes	—	—	0	6	6
Opera glasses in great variety of mountings, from 4s. 6d. to	—	—	2	12	6
Ditto, on an improved construction of glasses, plain mounting	—	—	1	1	0
Refracting telescopes of various lengths, from 6s. to	—	—	1	16	0
Ditto to use at sea by night, from 1l. 11s. 6d. to	—	—	2	12	6
Achromatic telescopes of various lengths, from 18s. to	—	—	4	0	0
The new improved ditto, with three sliding brass tubes, by which an instantaneous view of the object is obtained, and shuts up very short for the pocket, of one foot in length, in a case	—	—	1	16	0
Second best, two drawers, ditto	—	—	1	1	0

			£.	s.	d.
Twenty inch, best, three drawers, ditto	—	—	2	12	6
Ditto, second best, two drawers	—	—	1	10	0
Two feet best, three drawers, ditto	—	—	4	4	0
Ditto, second best ditto	—	—	3	3	0
Three feet, best ditto	—	—	6	6	0
Second best ditto	—	—	4	4	0
Astronomical eye-pieces and portable brass stands for the above, from 18s. to	—	—	2	12	6
The new improved $2\frac{1}{2}$ feet Achromatic Refractor, on a brass stand, mahogany tube, with two sets of eye-glasses, one magnifying about forty times for terrestrial objects, and the other about 75 times for astronomical purposes, packed in a mahogany box	—	—	9	9	0
Ditto, ditto, the tube all brass	—	—	10	10	0
The $3\frac{1}{2}$ feet ditto, ditto, mahogany tube	—	—	16	16	0
Ditto, ditto, brass tube	—	—	18	18	0
Ditto all in brass, with rack-work motions, &c.	—	—	24	3	0
Achromatic perspective glasses for the pocket, in brass, &c. tubes, with a change of eye-glasses from 12s. to	—	—	3	3	0
New improved ditto, answering the purpose of an Opera-glass, with a compass, and helioscope for viewing the sun, from 1l. 3s. to	—	—	2	2	0
New improved Achromatic pocket telescope, which by a small apparatus within its tubes, is readily converted into a compound microscope	—	—	3	13	6
An improved portable 7 inch achromatic telescope in brass, with a stand that packs up into the tube of the telescope, adapted for astronomical uses	—	—	3	13	6
Reflecting telescopes four feet long, in brass, and fitted up for celestial observations, from 40l. to	—	—	100	0	0
Ditto 3 feet long, mounted on a brass stand without rack-work	—	—	22	1	0
Ditto with rack-work motions, improved mounting, and metals	—	—	33	12	0
Ditto 2 feet long, without rack-work, and with four magnifying powers	—	—	12	12	0
Ditto with rack-work motions	—	—	16	16	0
Ditto 18 inches on a plain stand	—	—	8	8	0
Ditto 12 inches ditto	—	—	5	5	0
Telescopes of both the above kinds fitted up with equatorial, &c. motions; micrometers; adjusting, compensating, &c. apparatus, for the most accurate astronomical purposes	—	—			
Common microscopes, from 2s. 6d. to	—	—	1	1	0
Wilson's single pocket microscopes, from 18s. to	—	—	2	12	6
Compound microscopes, improved, from 2l. 12s. 6d. to	—	—	5	5	0
New improved universal ditto	—	—	6	6	0
Ditto, with the most complete apparatus	—	—	10	10	0
Solar microscopes in brass, improved, from 4l. 14s. 6d. to	—	—	6	6	0
The new opaque, and transparent solar microscopes, with improved apparatus from 12l. 12s. to	—	—	16	16	0
Ditto of a larger size, with additional megalascopic apparatus, from 14l. 14s. to	—	—	19	19	0
The new opaque and transparent solar microscope, and best compound ditto, packed together in one mahogany box	—	—	21	0	0
The Camera Obscura, or lucernal microscope, as improved by <i>W. JONES</i> , exhibiting images of opaque, and transparent objects by night or day, in a manner singularly pleasing,					

	£.	s.	d.
brilliant, and distinct, with upwards of 100 objects, proper apparatus, parent lamp, &c. &c. — —	16	16	0
The Camera Obscura, combined with a solar compound &c. apparatus, forming the <i>most perfect</i> collection of microscopical apparatus — —	35	14	0
A portable optical apparatus, consisting of a scioptic ball and socket, a solar microscope, Wilson's microscope, a pocket compound microscope, a pocket telescope, and solar telescope, in mahogany and brass — — —	3	13	6
Pocket microscopes for opaque objects from 16s. to — —	2	12	6
Botanic microscopes for flowers, &c. from 5s. to — —	1	11	6
A new universal pocket ditto, for all sorts of objects — —	1	6	0
Cloth microscopes from 2s. 6d. to — —	0	10	6
Magic lanterns of the large size — —	1	1	0
Sliders for ditto in great variety of subjects, each — —	0	3	6
Small magic lanterns, with twelve sliders complete, at 7s. 6d. 10s. 6d. 12s. and — — — —	1	0	0
Ditto with 12 sliders of best paintings — — —	2	2	0
Optical diagonal machines for viewing prints, from 18s. to — —	1	16	0
Perspective views for ditto, each — — —	0	1	6
Scioptic balls and sockets from 10s. 6d. to — —	1	11	6
An artificial eye in brass, to exemplify the nature of vision — —	1	15	0
Camera Obscuras for the pocket, from 9s. to — —	1	16	0
A new invented folding ditto, very portable, — —	2	2	0
Large ditto, shutting up like a book, or neat portable chest, the objects represented on paper from 4l. 14s. 6d. to — —	8	18	6
Concave and convex mirrors, in plain black frames, 4, 5, 6, and 7, inches diameter, each, 9s. 12s. 14s. and — —	0	18	0
8 inches diameter ditto — — — —	1	1	0
9 inches ditto — — — —	1	7	0
10 inches ditto — — — —	1	12	0
12 inches ditto — — — —	2	5	0
15 inches ditto — — — —	3	13	6
18 inches ditto — — — —	6	6	0
21 inches ditto — — — —	11	11	0
24 inches ditto — — — —	16	16	0
Concave mirrors, ground cylindrically, possessing several curious properties in the deformation of objects, according to the size, from 1 l. 1s. to — —	5	5	0
Glass prisms, plain, or mounted, from 7s. 6d. to — —	2	12	6

MATHEMATICAL INSTRUMENTS.

Theodolites, of the common construction, and of the best workmanship, from 4l. 4s. to — —	31	10	0
A portable theodolite, with a telescope, level, and vertical arch — —	7	7	0
Ditto larger, with parallel plates, &c. divided to 2 minutes — —	12	12	0
Ditto, with rack work motions, divisions to a minute — —	22	1	0
A new-improved theodolite, with 2 telescopes, and contrivances for every accurate adjustment — —	31	10	0
A new very portable theodolite, by rack work, measuring angles with equal accuracy, as those of the common large sort, is at the same time applicable for taking altitudes, and is truly adapted for the purpose of levelling — —	8	8	0

	£.	s.	d.
Circumferentors, much used in wood lands, from 2l. 2s. to	4	4	0
An improved ditto, contrived to answer the purposes of a common theodolite, level, altitude instrument, &c.	4	14	6
Surveying crosses or squares, on a staff, from 12s. to	2	12	6
Levels of the latest improvements, from 2l. 2s. to	12	12	0
Station staffs, with sliding vanes, for levelling	2	12	6
Plane tables, with index, sights, &c. complete, from 3l. 13s. 6d. to	5	5	0
Pantagraphs, by which any person unskilled in drawing may copy plans, surveys, profiles, drawings, &c. in any proportion to the original, from 1l. 16s. to	6	16	6
Perambulators, or measuring wheels, from 6l. 6s. to	10	10	0
Gunter's measuring chain, according to strength from 5s. to	0	10	6
— navigation scale, from 2s. to	0	4	0
— improved by Donn, with book of directions,	0	5	0
— sectors, of various lengths, from 2s. to	1	11	6
Measuring tapes one, two, three, and four poles, 5s. 7s. 6d. 9s.	0	10	6
Pedometers for ascertaining distances, in walking or riding, of a watch size, for the pocket, and also to apply to carriages, from 4l. 14s. 6d. to	12	12	0
Miner's compasses for working in subterraneous grounds, from 10s. 6d. to	1	11	6
Cases of drawing instruments, from 4s. 6d. to	5	5	0
Magazine, or complete collection of every kind of useful drawing instruments, from 5l. 5s. to	35	0	0
A new portable drawing board and seat, the board folds up for the pocket, and the legs of the seat form a walking stick	0	18	0
Proportional compasses, from 1l. 10s. to	3	3	0
Elliptical compasses of various degrees of perfection, and utility, from 16s. to	4	14	6
Spiral and elliptical compasses, from 6s. 6d. to	10	10	0
Triangular compasses, by which three points at once may be transferred, from 13s. to	1	5	0
Hair compasses, that take extents to a great accuracy	0	7	6
Beam compasses for dividing large circles, projections, &c. from 1l. 1s. to	10	0	0
Bow compasses for describing very small circles, from 2s. 6d. to	0	12	0
Perspective compasses, from 1l. 5s. to	2	12	6
Parallel rulers of different constructions, from 2s. to	2	12	6
Protractors for lying down angles, from 2s. to	1	1	0
Ditto, with a nonius and moveable limb	2	2	0
Ditto, ditto, with teeth and pinion	4	10	0
Sets of protracting and plotting scales; instruments for dividing lines, or transferring divisions on paper. An instrument for describing circles, from 4 or 6 inches radius, or to the utmost conceivable distance—Gunners Callipers, Gunners levels or perpendiculars. Shot Gauges—Shell ditto—Gunners quadrants, with a plummet or level, or adjusting screw, &c. and all other instruments for military purposes			
Hadley's quadrants, mahogany, the divisions on wood	1	11	6
Ditto mahogany with ivory arch, and nonius, double observation	2	2	0
Ditto ditto, a brass index, double observation	2	12	6
Ditto ebony and brass, best glasses, engine divided, &c.	3	0	0
Ebony and brass mounted best sextants, from 4l. 4s. to	8	18	6

Metal ditto, all brads, framed on a principle the least liable to be warped or strained, with adjusting screws, telescopes, and other auxiliary apparatus, the most proper for taking distances accurately, in order to determine the longitude at sea	—	—	—	—	12	12	0
Gunter's quadrant, from 4s. to	—	—	—	—	1	1	0
Azimuth compasses of different constructions, from 5l. 5s. to	—	—	—	—	12	12	0
Pocket compasses, from 2s. 6d. to	—	—	—	—	5	5	0
Horizontal sun-dials, in brads, made for any latitude, of 4, 5, or 6 inches diameter, divided into 5 minutes of time, each at 6s. 9s. and	—	—	—	—	0	12	0
Ditto 7 inches	—	—	—	—	0	16	0
Ditto 8 inches, into 2 minutes	—	—	—	—	1	4	0
Ditto 10 inches, ditto	—	—	—	—	1	16	0
Ditto 12 inches, ditto	—	—	—	—	2	10	0
Ditto 15 inches, into every minute, 32 points of the compass, &c.	—	—	—	—	4	14	6
Ditto 18 inches, ditto, ditto, equation of time, &c.	—	—	—	—	8	8	0
Ditto 2 feet diameter, ditto, ditto	—	—	—	—	15	15	0
A new universal ditto, and equatorial. making a very portable angular instrument, from 8l. 8s. to	—	—	—	—	31	10	0
Universal ring dials, from 7s. 6d. to	—	—	—	—	10	10	0
PHILOSOPHICAL, &c. INSTRUMENTS.							
Planetariums, shewing the phænomena of the Ptolemaic and Copernican systems, from 7l. 7s. to	—	—	—	—	50	0	0
Manual orreries of the common construct. from 2l. 12s. 6d. to	—	—	—	—	6	6	0
Jones's (Wm.) new portable orrery, the tellurian part	—	—	—	—	1	1	0
Ditto, the planetarium part	—	—	—	—	1	1	0
Tellurian and planetarium together, making the <i>new portable orrery</i> , packed in a neat mahogany box, according to the sizes, from 2l. 12s. 6d. to	—	—	—	—	5	5	0
An orrery shewing the motions of Mercury, Venus, the Earth and Moon, by wheel work, the Earth is a 1½ inch globe, packed in a box	—	—	—	—	4	4	0
Other planetariums, and orreries, in great variety, the motions by wheel-work, exemplifying all the motions and phænomena of all the planets, the Georgium Sidus included, from 40l. to	—	—	—	—	1000	0	0
Cometariums, for exemplifying the motion of comets, from 1l. 11s. 6d. to	—	—	—	—	5	5	0
Senex's globes improved, 28 inches diameter, mahogany frames, with carved work, and silvered meridians, &c.	—	—	—	—	50	0	0
17-inch ditto, mounted in the common manner	—	—	—	—	6	6	0
12-inch ditto, improved by Ferguson, with all the new discoveries of Capt. Cooke, &c. with the new hour circles, which supercede all the intended advantages of cumbersome wires, and other appendages in other globes, mounted in neat mahogany claw-feet frames	—	—	—	—	5	5	0
Ditto in common coloured-wood frames	—	—	—	—	3	3	0
Additional price of a compass, and fitting to both globes	—	—	—	—	0	5	0
A pair of red leather covers for the globes	—	—	—	—	0	9	0
Globes, 9 inches diameter, with the new discoveries	—	—	—	—	2	2	0
Ditto 3 inches ditto, in claw feet, mahogany frames,	—	—	—	—	1	10	0
Ditto 3 inches single, one in a case for the pocket	—	—	—	—	0	9	0

	<i>£.</i>	<i>s.</i>	<i>d.</i>
Geographical planispheres, to solve problems, mounted as a hand fire screen — — —	0	7	6
A brass armillary sphere 3-inches diameter —	3	3	0
A 6-inch ditto, — — —	6	6	0
A 9-inch ditto — — —	9	9	0
A 12-inch ditto — — —	12	12	0
Larger ditto, with planetarium from 21l. to —	105	0	0
A single-barrel air pump with receiver — —	2	12	6
Improved ditto, exhausting more accurately — —	5	15	6
A small double-barrel air pump with gage plate —	5	5	0
A middle size ditto — — —	6	16	6
A large size table ditto — — —	10	10	0
Air pumps, of the more accurate kind, from the constructions of the different inventors,			
Condensing engines, from 2l. 2s. to — —	21	0	0
Air guns, for experiments &c. — — —	16	16	0
Papin's digester, improved, on a stand — —	5	5	0
<i>The principal apparatus for the air-pump, as follows:</i>			
Guinea and feather apparatus, demonstrating the resistance of the air, with one, two, or three falls, from 18s. to —	1	10	0
A set of wind mills, for the same demonstration — —	1	10	0
The brass hemispheres, shewing the air's external pressure, from 14s. to — — —	1	10	0
A bell, proving that there is no sound without air — —	0	7	6
Improved constructions of this bell, from 1l. 1s. to —	3	10	0
Lead weights, with bladder, &c. proving the air's elasticity —	0	17	0
The double transferer, that transfers a vacuum from one receiver to another, by turning stop-cocks only —	3	0	0
A model of a water pump, exemplifying the nature of pumps, and proving the absurdity of what is called <i>suction</i> —	1	4	0
A single transferer, plate, and pipe, for a fountain —	0	18	0
A copper air-pipe, for experiments on infected air —	0	17	0
A flat plate, collar of leathers, with sliding wire for placing on receivers — — —	0	12	0
An apparatus for firing gun-powder in vacuo — —	0	18	0
A copper bottle, beam and stand, for accurately weighing of air —	2	12	6
A glass vessel, for making a fountain in vacuo — —	0	5	6
Ditto on a larger, and different construction — —	0	16	0
A glass, with a bladder, shewing the action of the lungs —	0	6	0
Ditto mounted with the figure of a Bacchus —	1	10	0
A balance beam and stand — — —	0	7	0
A filtering cup — — } shewing the porosity —	0	5	0
A plate and piece of wood — } of vegetables —	0	4	6
An apparatus for striking flint and steel in vacuo —	0	18	0
The Torricellian experiment — — —	0	18	0
Fruit stand — — —	0	3	6
Candlestick — — —	0	3	6
Syringe with lead weight — — —	0	10	6
6 Breaking squares, cage and cap — — —	0	7	6
Glass bubble and stand — — —	0	3	0
Hand and bladder glasses — — —	0	3	6
With a great variety of receivers and other apparatus described by various authors			
Exhausting and condensing syringes, from 10s. 6d. to —	1	11	6

	£.	s.	d.
Exhausting syringes, with sets of cupping glasses — —	1	11	6
Air fountains of copper, with various jets, from 3l. 13s. 6d. to —	7	7	0
Electrical machines, with conductors and jars, from 2l. 12s. 6d. to — — —	10	10	0
New, and much improved ditto, from 3l. 13s. 6d. to — —	42	0	0
Electrical machines, and complete apparatus, for medical purposes, packed in boxes, the cylinder from 7 to 10 inches diameter, from 6l. 6s. to — — —	12	12	0
An electrical machine, with apparatus for philosophical experiments, packed in a box, the cylinder about 8 inches diameter — — — —	8	18	6
<i>Apparatus for electrical machines as follow :</i>			
Electrical batteries, of combined jars, from 2l. 12s. 6d. to — —	10	10	0
A universal discharger, with a press — — —	1	8	0
A quadrant electrometer, with divided arch — — —	0	7	6
Jointed dischargers, with glass handles — — —	0	10	6
Plain ditto ditto — — — —	0	5	6
A useful and illustrative apparatus, compounded of the luminous conductor, exhausted flask, two jars, exhausted syringe, insulated stand, and wires with balls, &c. complete — — —	3	0	0
Luminous conductors, from 12s. to — — —	1	5	0
Exhausted flasks, called Aurora Borealis — — —	0	6	6
A thunder house, demonstrating the use of conductors — — —	0	6	0
A powder house, for the same purpose — — —	0	16	0
An obelisk or pyramid for ditto — — — —	0	10	6
A set of plain bells, three to a set — — — —	0	7	6
A new set of musical ditto, containing the gamut — — —	1	10	0
A magic picture for giving shocks — — — —	0	7	6
An electrical cannon, to be discharged by inflammable air — — —	0	16	0
Brass pistols for ditto — — — —	0	7	6
Spiral tubes, to illuminate by the spark, from 4s. 6d. to — — —	0	10	6
Luminous names, or words, from 10s. 6d. to — — —	1	11	6
Spotted jars, from 6s. to — — — —	0	10	6
A double jar, for explaining the Franklinian theory — — —	0	15	0
Copper plates and stands for dancing images — — —	0	9	0
A small head with hair — — — —	0	7	6
An artificial spider — — — —	0	1	6
An electrical swan — — — —	0	2	0
An electrical star — — — —	0	1	6
Balls of wood, bone, &c. each from 6d. to — — —	0	2	6
A curious collection of working models, to be set in motion by the electrical fluid, consisting of a corn mill and a three-barrelled water pump, worked by one crank only : an orrery, shewing the diurnal motion of the earth, age and phases of the moon, &c. and astronomical clock, shewing the aspects of the sun and moon, age, phases, &c. all delicately made of card paper, cork, and wire only, packed in a deal case — — —			
Kinnerly's electrical air thermometer — — —	2	12	6
Cavallo's atmospherical electrometer — — —	1	1	0
Ditto, as improved by Saussure — — —	0	12	0
Bennet's gold leaf electrometer — — —	1	1	0
The new revolving doubler — — —	0	18	0
	2	12	6

	£.	s.	d.
An electrophorus, from 10s. 6d. to — — —	3	3	0
Conductors, for the preservation of ships, houses, &c. from lightning, from 3l. 3s. to — — —	5	5	0
<i>The medical apparatus consists of</i>			
Jars with electrometers, from 12s. to — — —	1	1	0
A new medical ditto, for communicating shocks, in the most convenient and qualified manner — — —	0	7	6
Ditto, with electrometer and discharging rod — — —	1	1	0
A pair of directors, glass handles, wood points, &c. — — —	0	7	6
An electrometer to apply to the conductor — — —	0	6	6
Electrical insulated stools, and chairs, from 9s. to — — —	5	5	0
A new perpetual inflammable air lamp, lighted by the electrophorus — — — — —	4	4	0
A variety of other apparatus, too numerous to be inserted here, which as well as the machines, are mounted from the most approved, eligible methods, so as to render them in action both powerful and permanent.			
Barometers plain mounted, from 1l. 11s. 6d. to — — —	2	12	6
Thermometers for all the various purposes, from 9s. to — — —	3	3	0
Six's new thermometers, for shewing the extremes of heat and cold, in the absence of the observer 1l. 6s. to — — —	2	2	0
An hygrometer, shewing the moisture and dryness of the air — — —	0	10	6
Barometers, thermometers, and hygrometers, all in one neat mahogany frame, from 4l. 4s. to — — —	6	6	0
Marine barometers, diagonal, wheel, and statical ditto, and barometers for ascertaining the height of mountains			
New hygrometers, constructed by De Luc, &c.			
A rain gauge, with float and tin vessel — — —	0	18	0
Wind gages, of the constructions of Dr. Lind, &c.			
Hydrometers for discovering the strength and proportion of compound, in spirituous liquors, from 1l. 7s. to — — —	3	3	0
Hydrostatic balances, from 1l. 1s. to — — —	9	9	0
An apparatus for hydrostatical experiments from 3l. 13s. 6d. to — — —	21	0	0
Artificial magnets in bars, and sets of bars, from 2s. 6d. to — — —	6	6	0
Ditto, in the shape of a horse-shoe, the strongest form, from 1s. 6d. to — — — — —	1	1	0
Ditto, combined to any number, from 12s. to — — —	21	0	0
A box of magnetical apparatus illustrating a variety of curious, and entertaining properties in magnetism from 5l. 5s. to — — —	7	7	0
Dipping needles, variation and other compasses, in great variety			
Pyrometers, shewing the expansion of metals, from 3l. 3s. to — — —	10	10	0
The mechanical powers, for illustrating and demonstrating the laws of motion, gravity, &c. a set neatly made in brass, consisting of the balance, the pulleys, the different kinds of levers, the inclined plane, the wheel and axle, the screw, a compound engine, a compound lever, a double one to move up an inclined plane, friction wheels, weights, wedges, &c. complete — — — — —	25	4	0
The same occasionally made on a more enlarged plan, for a large auditory			
Ditto with many parts of the apparatus made of mahogany, and the whole set packed in a neat mahogany box — — —	14	14	0
Separate sets of pulleys, variously constructed and combined			
A small carriage with inclined plane, and wheels of different			

	£.	s.	d.
sizes, &c. experimentally proving the friction, resistance, &c. of all sorts of wheel carriages — — —	7	7	0
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